PIM61008A

Service Manual

PM6100 /F1N, /K1G, /S1G

Integrated amplifier

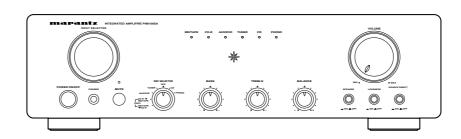


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Please use this service manual with referring to the user guide (D.F.U.) without fail. 修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。



PM6100SA

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- 1. Complete address
- 2. Complete part numbers and quantities required
- 3. Description of parts
- 4. Model number for which part is required
- 5. Way of shipment
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SHOCK. FIRE HAZARD SERVICE TEST:

CAUTION: After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

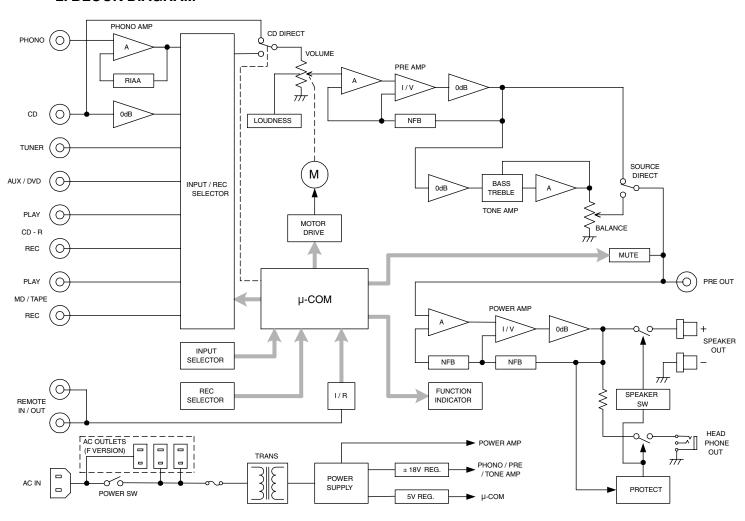
Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

Rated power output (20 Hz to 20 kHz, 2ch simultaneous drive) 50 W x 2 (8 Ω load) $60 \text{ W} \times 2 \text{ (6 }\Omega \text{ load)}$ 70 W x 2 (4 Ω load) Total harmonic distortion (20 Hz to 20 kHz, 2ch drive, 8 Ω load) 0.01 %Output bandwidth (8 Ω load, 0.04 %) 10 Hz to 50 kHz Frequency response (CD, SOURCE DIRECT) 5 Hz to 60 kHz, +0 / -1 dB Input sensitivity/Input impedance PHONO (MM) 2.3 mV/47 kΩ HIGH LEVEL 200 mV/15 k Ω Maximum allowable PHONO input (1 kHz) RIAA deviation (20 Hz to 20 kHz)..... ± 0.2 dB S/N (IHF A network, input shorted) PHONO (MM)85 dB HIGH LEVEL 110 dB Loudness (-20 dB) 100 Hz 8 dB Tone control BASS (100 Hz) ± 8 dB TREBLE (10 kHz) ± 8 dB Supply voltage [/K] 110/220 V AC, 50/60 Hz [/S] 230 V AC, 50 Hz [/F]...... 100 V AC, 50/60 Hz Power consumption [/K, /S]155 W [/F] 135 W Dimensions440 mm Width Height 124 mm Weight 7.5 kg Accessories Remote control unit (RC8100PM) x 1 Dimensions Width 55 mm Height 197 mm Depth 21 mm Weight (without batteries) 90 g SUM-3 (AA size) dry cell battery x 2 Design and specifications are subject to change without notice.

2. BLOCK DIAGRAM

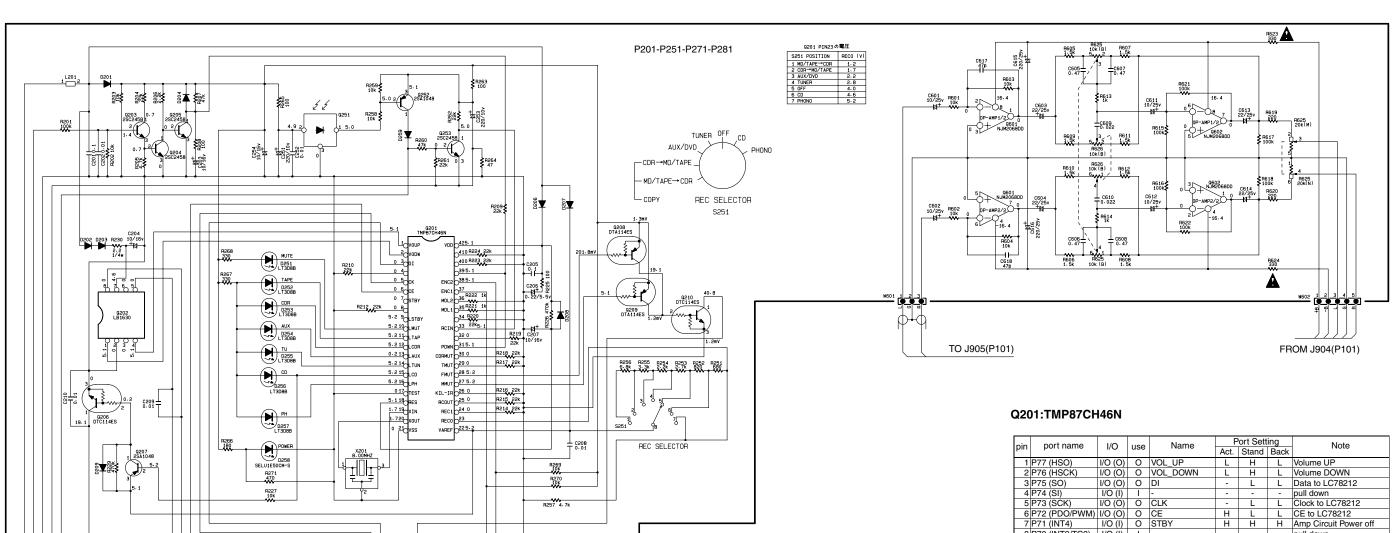


3. TEST EQUIPMENT REQURED FOR SERVICING

Item	Use
項目	使 用 方 法
Distortion Analyzer	Distortion measurements
歪率計	歪の測定
Audio Oscillator	Sinewave and squarewave signal source
低周波発振器	正弦波及び矩形波の信号源
AC VTVM	Voltage measurements (AC)
AC VTVM	交流電圧の測定
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
オシロスコープ	波計分析、トラブルシューティング及び ASO の調整
DC VTVM	Voltage measurements (DC)
DC VTVM	直流電圧の測定
AC Wattmeter	Monitors primary power to amplifier
交流ワットメーター	アンプの一次側消費電力のモニター
Line Voltmeter	Monitors poterntial of primary power to amplifier
電源電圧計	アンプの一次側消費電圧のモニター
Vanable Autotransformer	Adjust level of primary power to amplifier
スライダック	アンプの一次側電圧の調節
Circuit Tester	Trouble shooting
テスター	トラブルシューティング
Shorting Plug	Shorts amplifier input to eliminate noise pickup
ショート用プラグ	雑音を拾わないようにアンプ入力を短絡する

4. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern Side)

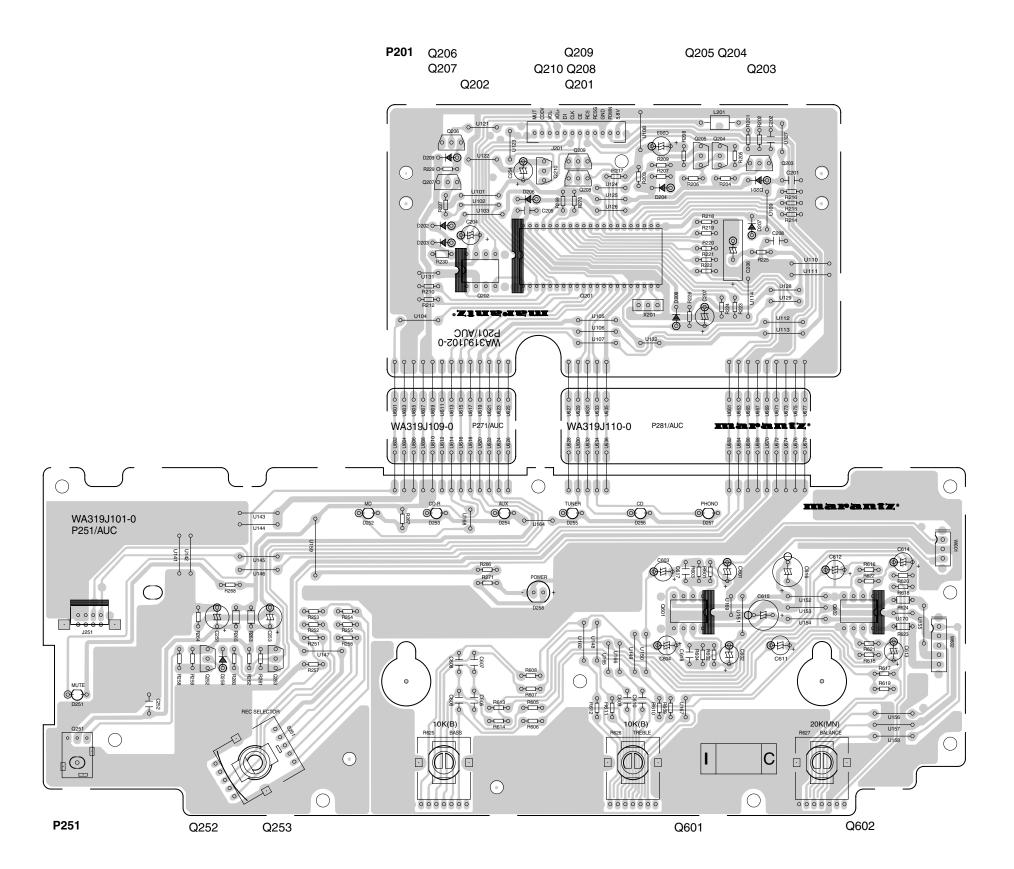
TO W801(P101)



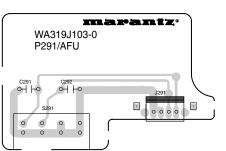
					Act.	Stand	Back	
1	P77 (HSO)	I/O (O)	0	VOL_UP	L	Н	L	Volume UP
2	P76 (HSCK)	I/O (O)	0	VOL_DOWN	L	Н	L	Volume DOWN
3	P75 (SO)	I/O (O)	0	DI	-	L	L	Data to LC78212
4	P74 (SI)	I/O (I)	ı	-		-	-	pull down
5	P73 (SCK)	I/O (O)	0	CLK		L	L	Clock to LC78212
6	P72 (PDO/PWM)	I/O (O)	0	CE	Н	L	L	CE to LC78212
7	P71 (INT4)	I/O (I)	0	STBY	Н	Н	Н	Amp Circuit Power off
8	P70 (INT3/TC3)	I/O (I)	ı		-	-	-	pull down
9	P07	I/O	0	LED_STANDBY	L	L	Н	Standby LED
10	P06	I/O	0	LED_MUTE	L	Н	Н	Manual Mute LED
11	P05	I/O	0	LED TAPE	L	Н	Н	MD/TAPE LED
12	P04	I/O	0	LED CDR	L	Н	Н	CDR LED
13	P03	I/O	0	LED AUX	L	Н	Н	AUX/DVD LED
14	P02	I/O	0	LED TUNER	L	Н	Н	TUNER LED
15	P01	I/O	0	LED CD	L	Н	Н	CD LED
16	P00	I/O	0	LED PHONO	L	Н	Н	PHONO LED
17	TEST	Ī	Ť			-	-	to VSS
18	RESET	I/O	ı			-	-	
	XIN	I	Ť		-	-	-	
	XOUT	0	Ô		-	-	-	
	(VASS)VSS	-	-		-	_	-	
	VAREF	-	-		-	-	-	A/D Reference
	P60 (AIN0)	I/O (I)	ı	REC SEL0	-	-	-	Rec-Out Sel A/D
	P61 (AIN1)	I/O (I)	i	REC SEL1	-	-	-	Rec-Out Sel A/D
	P62 (AIN2)	I/O (I)	Ì		-	-	-	pull down
	P63 (AIN3)	I/O (I)	Ť		-	_	-	pull down
	P64 (AIN4)	I/O (I)	Ö	M MUTE	L	L	L	Manual Mute
	P65 (AIN5)	I/O (I)	0	INPUT MUTE	L	Ē	L	Input Source Mute
	P66 (AIN6)	I/O (I)	0	TAPE MUTE	Ē	Ē	Ē	Tape Out Mute
	P67 (AIN7)	I/O (I)	ō	CDR MUTE	Ē	Ē	Ē	CDR Out Mute
	P10 (INT0)	I/O (I)	ī	POWER DOWN	L	-	-	Detect Power Down
	P11 (INT1)	I/O (I)	i	TOWER_BOWN	-			pull down
	P12 (INT2/TC1)	I/O (I)	i	RC5 IN	-	-	-	RC-5 Input
	P13 (DVO)	1/0 (0)	i	1103_114		_	-	pull down
	P14 (PPG)	1/0 (0)	i	MODEL1	_	-	-	Model Check
	P15 (TC2)	I/O (I)	i	MODEL2	-	-		Model Check
	P16	1/0	i	ENC1		_	_	Input Sel. Rotary enc.
	P17	1/0	÷	ENC2	-	-	-	Input Sel Rotary enc.
	P20	I/O (I)	÷	STOP	-	-	-	31Pin short
	(INT5/STOP)	1/0 (1)	'	0101	_	1	_	OTT III SHOIL
	P21 (XTIN)	I/O (I)	-		_	_	-	pull down
	P22 (XTOUT)	1/0 (0)	÷		-	-	-	pull down
	VDD	-	<u> </u>		-	-	-	puli down
42	V D D	-	-	1	-	1 -	_	I

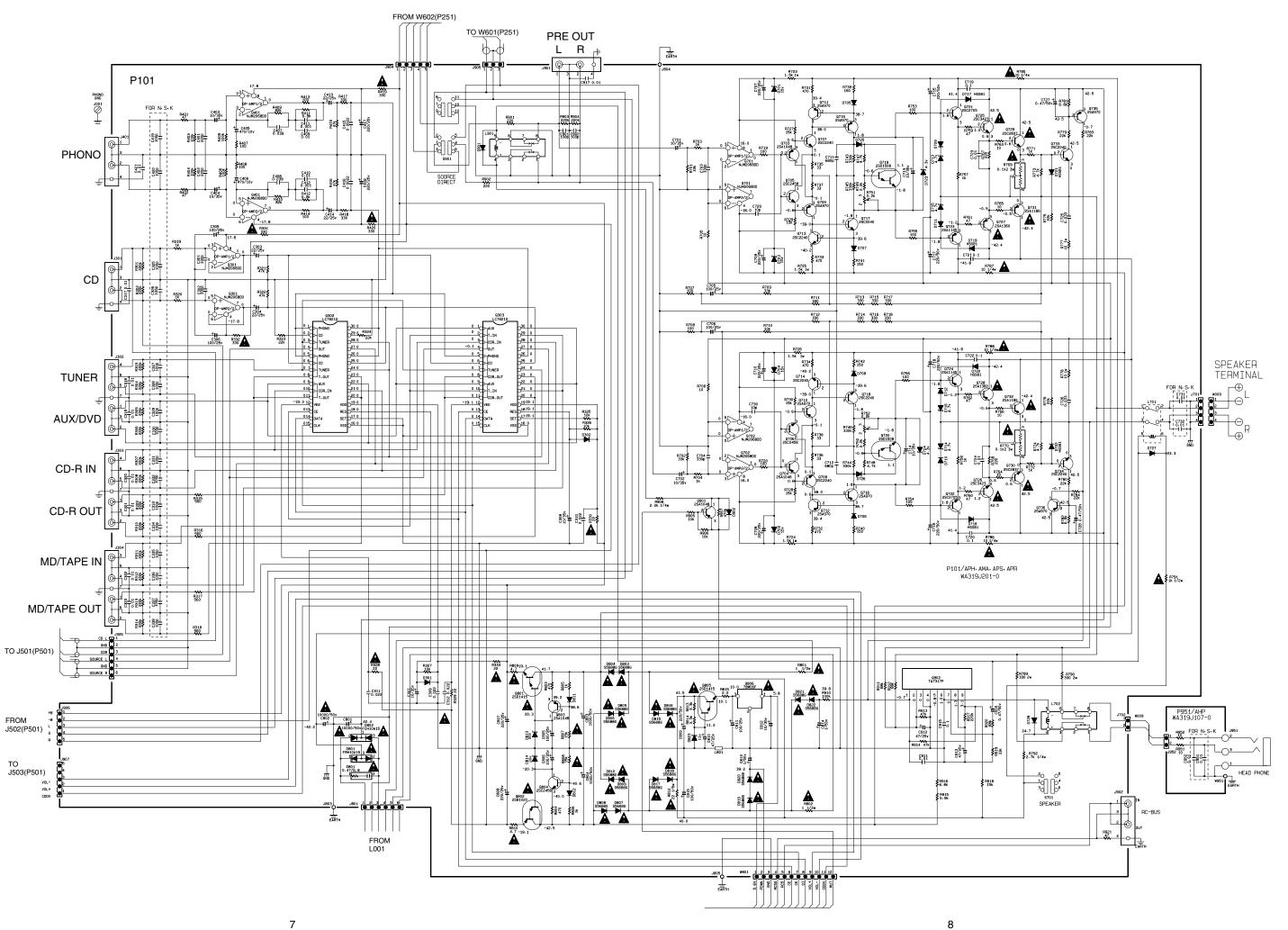
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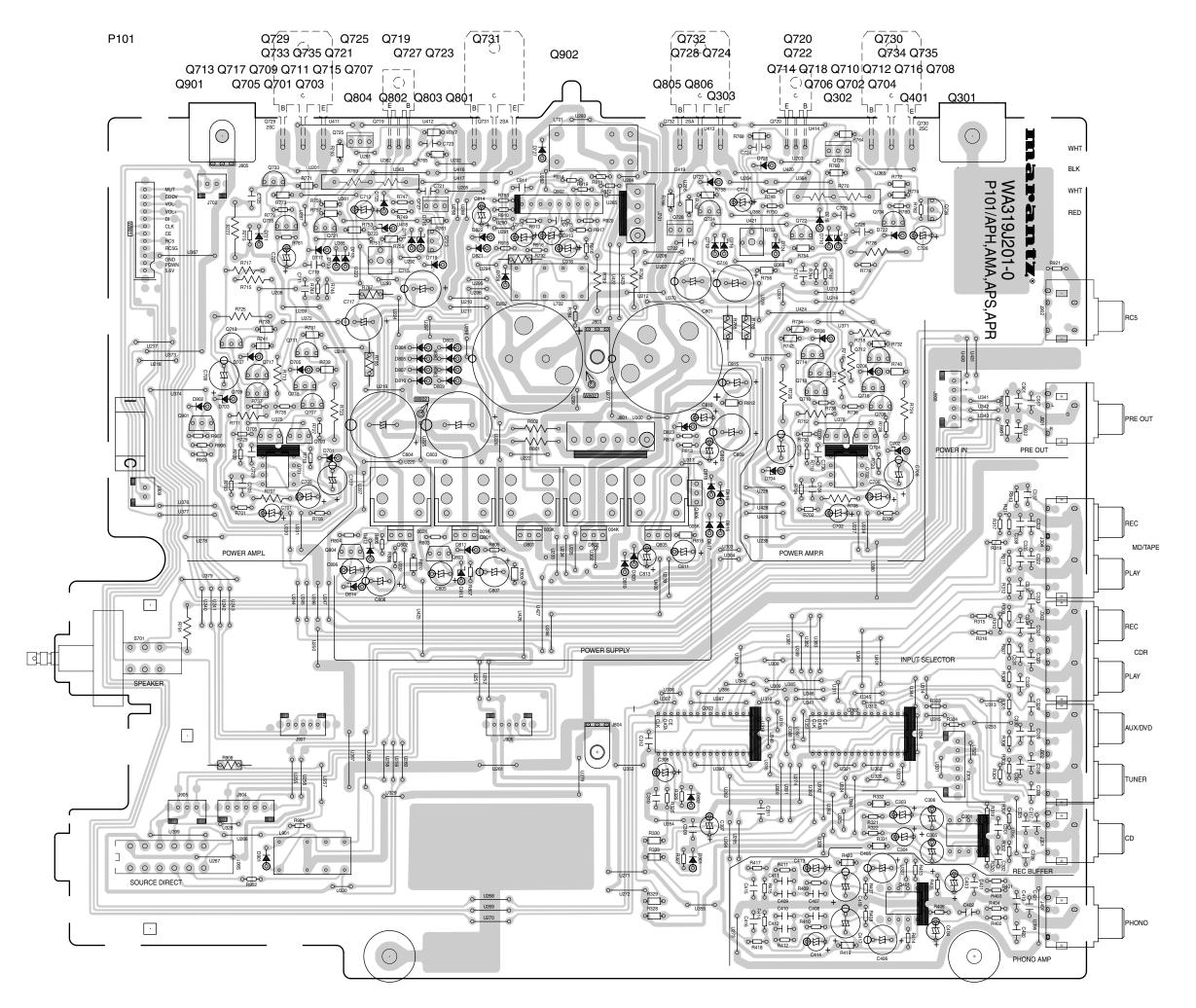
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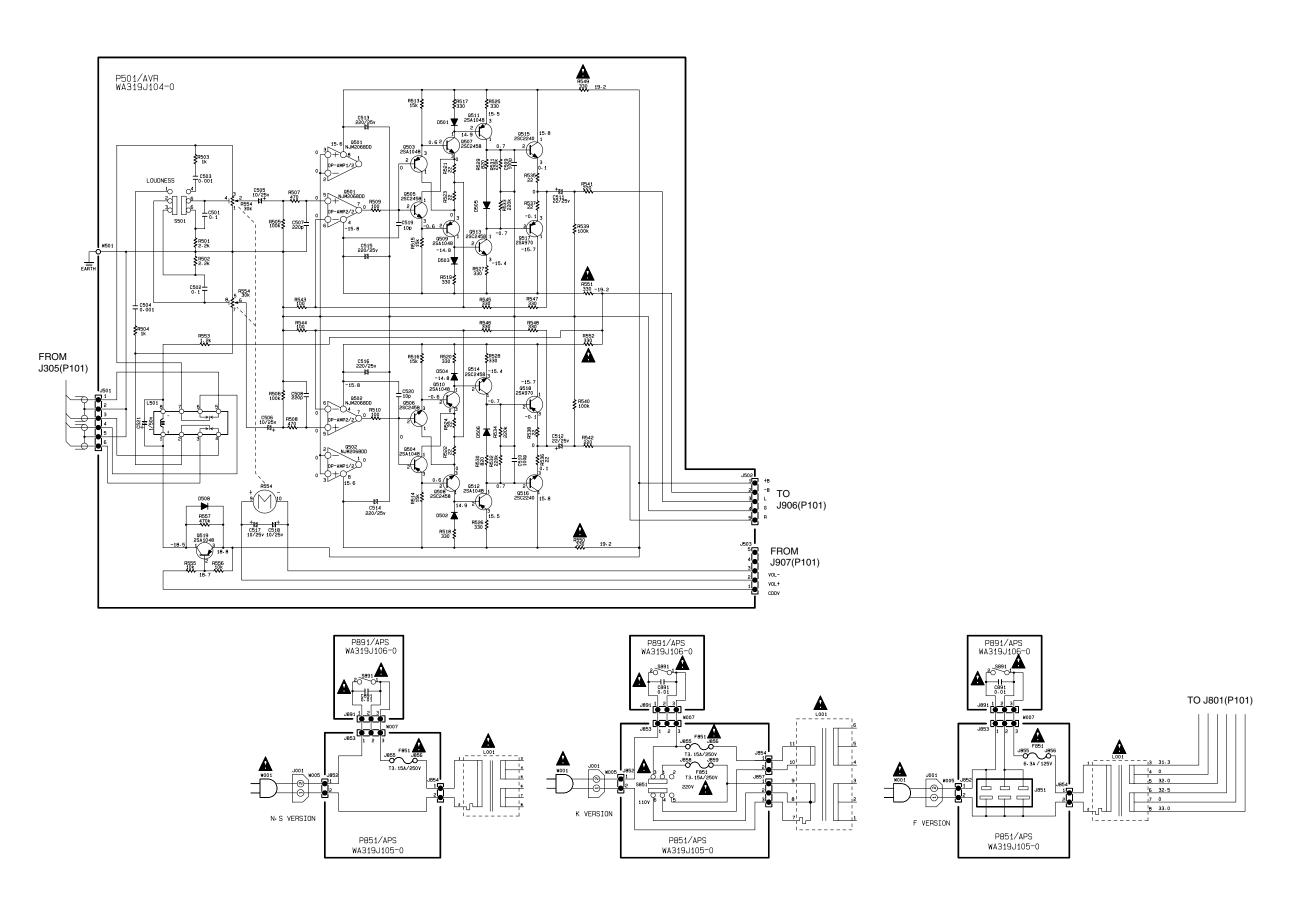


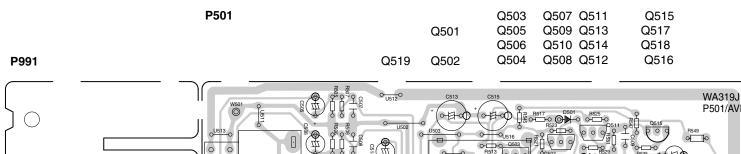
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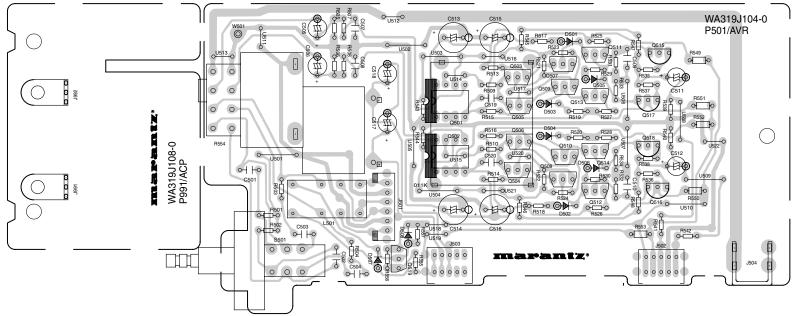


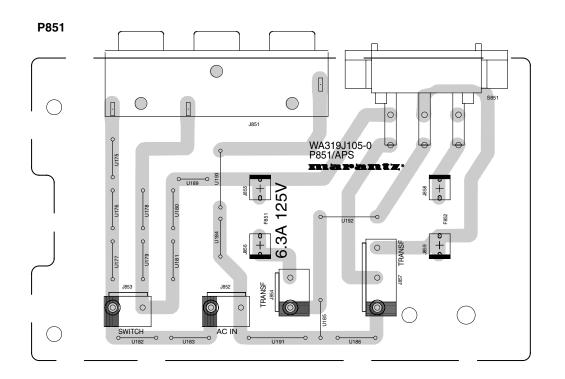


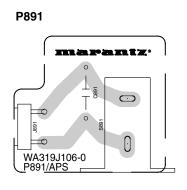


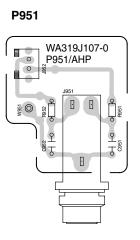




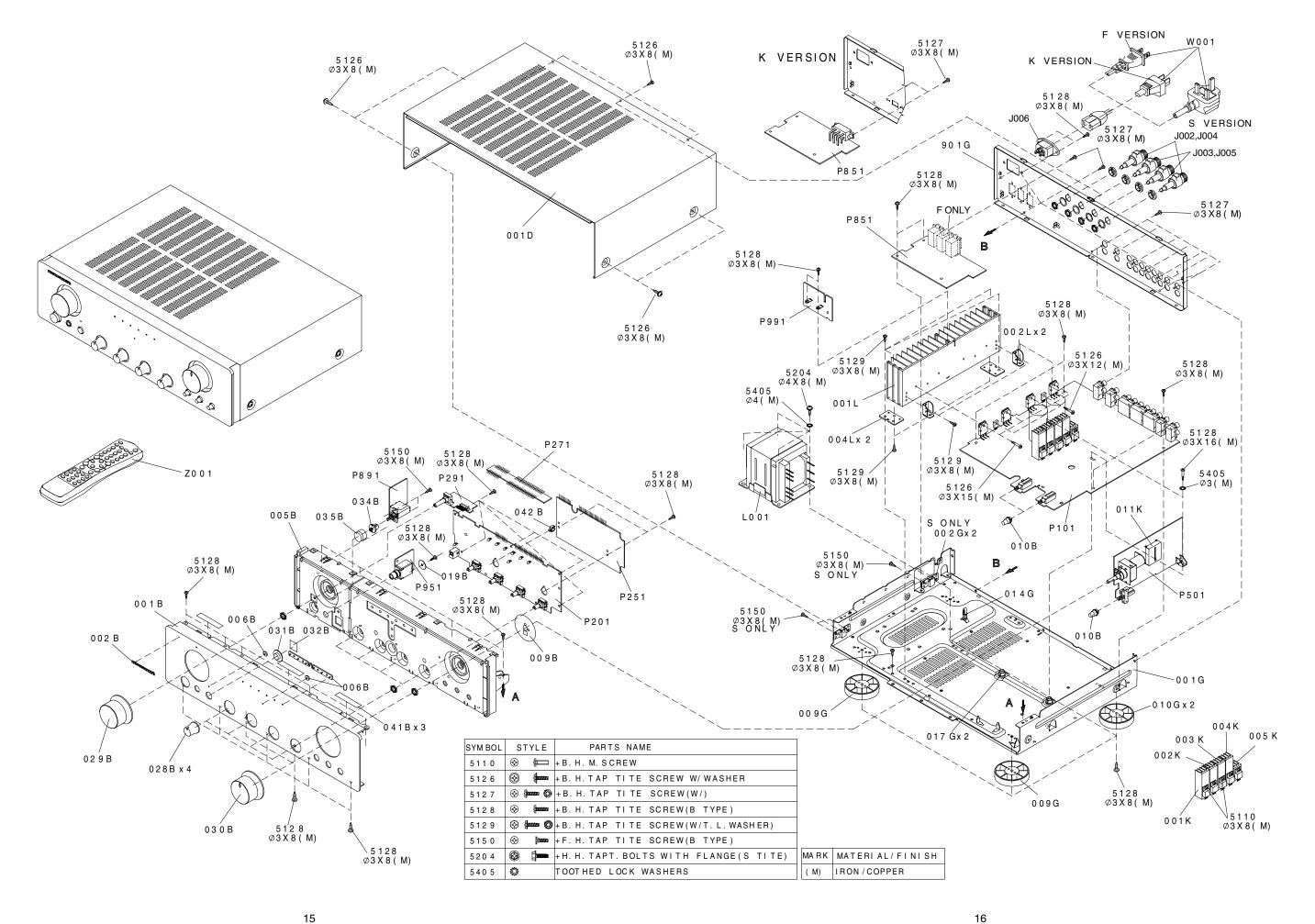








5. EXPLODED VIEW AND PARTS LIST



_					
F	POS.	VERS.	PART NO.	DESCRIPTION	PART NO.
	NO	COLOR	(FOR PCS)		(MJI)
Н					
	001B	GOLD		FRONT AL PANEL GOLD	319J248110
	002B		482245911172	BADGE MARANTZ	185J251010
	005B	GOLD		CHASSIS FRONT MOLD GOLD	319J105120
	006B			LENS LED	319J355010
	009B			SHIELD	135J109010
				MASTER VOLUME SHEET	
	010B	GOLD		BUTTON FUNCTION GOLD	275W270020
	019B	COL D		WASHER D16 T0.5	261J012010
	028B 029B	GOLD GOLD	996500001391	KNOB TONE/REC GOLD KNOB INPUT SELE, GOLD	319J154110
	029B	GOLD	990000001391	KNOB MASTER GOLD	312J154020 312J154120
	030B	GOLD	996500001392	LENS IR GOLD	275W355110
	032B	GOLD		MASK IR	312J303030
	034B		996500001394	JOINT POWER	312J125010
	035B	GOLD	996500001395	BUTTON POWER SW GOLD	255W270110
	001D	GOLD		LID TOP COVER GOLD	319J257110
I				= 0 = D = 0 = 0 = 0	
I	009G		482246242045	LEG FRONT SIDE	183J057010
I	010G		482246242048	LEG REAR SIDE	183J057110
	J002	GOLD	482226511424	TERMINAL WBT-0745	YT01010360
I	JUUZ	GULD	402220011424	SPEAKER RED	1101010300
I	J003	GOLD	482226511425	TERMINAL WBT-0747	YT01010370
I	3000	3320	.52220511725	SPEAKER WHT	. 101010370
	J004	GOLD	482226511424	TERMINAL WBT-0745	YT01010360
				SPEAKER RED	
	J005	GOLD	482226511425	TERMINAL WBT-0747	YT01010370
				SPEAKER WHT	
	J006		482226511399	JACK 2P AC INLET SOT-16C	YJ04002360
L	1.004	ı.		MANING TRANSFER FOR F	T047/F0040
	L001 L001	/F /K		MAINS TRANSF. FOR F	TS17653010
	L001	/S		MAINS TRANSF. FOR K MAINS TRANSF. FOR N	TS17653030 TS17653020
_	LUUI	13		IVIAINS TRANSF. FOR IN	131/033020
	W001	/F	482232111337	A.C MAINS CORD	ZC01802080
				MITI 125V 12A	
A	W001	/K		A.C MAINS CORD	ZC01803090
١.				CCEE 2.5A 250V	
A	W001	/S	996500001383	A.C MAINS CORD	ZC01804070
				FOR HK(S PORE) 250V 10A	
				DAOMINO	
	001T	/F		PACKING USER GUIDE JAPAN	319J851110
	001T	/K, /S		USER GUIDE JAPAN USER GUIDE	319J851350
	0011	, IX, IJ		OOLK GOIDE	0173031330
	Z001			REMOTE COMMANDER	ZK319J0010
				RC8100PM	
I					
I					
I					
I					
I					
I					
I					
I					
I					
I					
				NOT STANDARD SPARE	
				PARTS	
I	001S			PACKING CASE	319J801010
	002S			CUSHION	319J809010
	J099	/K	482226510092	JACK AC ADAPTER,	YJ04001240
I	JU77	/IX	702220010092	SMK S-16116 (PLRTY)	1304001240
_			l		

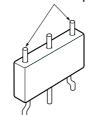
6. IDLING CURRENT ALIGNMENT

- Each of cement resistor R769(on the PCB P101:Lch) and cement resistor R770(on the PCB P101:Rch) are provided with three test points. Connect the digital voltage meter, set for the DC voltage input, to the test points at the two extremities of three test points of R769(L ch) and R770(R ch).
- 2. After the setup above, turn the mains switch ON and heat up the amplifier about 10 minuetes.
- Adjust variable resistors R769(on the PCB P101:L
 ch) and R770(on the PCB P101:R ch) according to
 the digital volt meter reading. The target setting
 value is 10mV±1mV(50mA) for both L ch and R ch.

アイドリング電流調整

- 1. P101 基板上のセメント抵抗 R769(L ch) 及びセメント抵抗 R770(R ch) の3本の測定用端子のうちの両端の2本にデジ タルボルトメーターを接続します。(レンジはDCに設定する。)
- 2. 電源スイッチをオンにし、アイドリング電流が安定するまで、およそ 10 分間放置します。
- 3. P101基板上の半固定抵抗R769(L ch)と半固定抵抗R770(R ch)を時計回りにまわしデジタルボルトメーターの値が 10mV±1mV(50mA)になるように調整します。

Measurement point



R769 / R770

7. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

 R^* * * : 1) GD05 × × × 140, Carbon film fixed resistor, ±5% 1/4W $\overline{R^* * *}$: 2) GD05 ××× 160, Carbon film fixed resistor, ±5% 1/6W

Resistance value

Examples;

Resistance va	llue		
0.1Ω 001	10Ω 100	1kΩ 102	100kΩ 104
0.5Ω 005	$18\Omega \dots 180$	$2.7k\Omega 272$	680kΩ 684
1Ω 010	100Ω 101	10kΩ 103	1MΩ 105
6.80 068	390Q 391	22kQ 223	4.7MQ 475

Note: Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

```
C* * * : CERAMIC CAP.
        3) DD1 \times \times \times \times 370,
                                  Ceramic capacitor
                                  Disc type
                                  Temp.coeff.P350 ~ N1000, 50V
                             Capacity value
                             Tolerance
 Examples;
```

Tolerance (Capacity deviation)

±0.25pF 0 ±0.5pF 1 ±5% 5

* Tolerance of COMMON PARTS handled here are as follows:

5pF ... ±0.25pF $0.5pF \sim$ 6pF ~ 10pF ... ±0.5pF 12pF ~ 560pF ... ±5% Capacity value

0.5pF ... 005 100pF ... 101 3pF ... 030 1pF ... 010 220pF ... 221 10pF ... 100 1.5pF ... 015 560pF ... 561 47pF ... 470

C* * * : CERAMIC CAP.

4) DK16 $\times\times\times$ 300, High dielectric constant ceramic capacitor Disc type Temp.chara. 2B4, 50V

Capacity value Examples:

Capacity value

100pF ... 101 470pF ... 471 1000pF 102 10000pF ... 103

2200pF 222

 $\overline{\mathbb{C}^{***}}$: 5) ELECTROLY CAP. (ot = 0), 6) FILM CAP. (ot = 0) Electrolytic capacitor

One-way lead type, Tolerance ±20% ── Working voltage Capacity value

Examples: Capacity value

 $4.7\mu F\, ...\,475$ 0.1μF 104 100μF ... 107 0.33μF 334 10μF ... 106 330μF ... 337 1100μF ... 118 22μF ... 226 1μF 105 2200uF... 228

Working voltage

6.3V 006 25V ... 025 10V 010 35V ... 035 16V 016 50V ... 050

6) DF15 ××× 350 · Plastic film capacitor DF15×××310 One-way type, Mylar ±5% 50V Plastic film capacitor $DF16 \times \times \times 310$ One-way type, Mylar ±10% 50V

Capacity value

Examples: Capacity value

0.001μF (1000pF) 102 $0.1 \mu F 104$ $0.56\mu F\dots 564$ 0.01μF......103 1μF 105 0.015µF 153

- NOTE: 1) The above CODES (R* **, R***, C***, C*** and C***) are omitted on the schematic diagram in some case.
 - 2) On the occasion, be confirmed the common parts on the parts list.
 - 3) Refer to "Common Parts List" for the other common parts (RI05, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR:

The suppliers and their type numbers of fusible resistors are as follows; 1. KOA Corporation Part No. (MJI) Type No. (KOA) Description $NH05 \times \times \times 140$ $RF25S \times \times \times \times \Omega J$ (±5% 1/4W) $NH05 \times \times \times 120$ $RF50S \times \times \times \times \Omega J$ (±5% 1/2W) NH85 ××× 110 -RF73B2A $\times \times \times \times \Omega J$ (±5% 1/10W) NH95 $\times \times \times$ 140 — RF73B2E $\times \times \times \times \Omega$ J (±5% 1/4W) * Resistance value Resistance value $(0.1 - 10k\Omega)$ 2. Matsushita Electronic Components Co., Ltd Part No. (MJI) Type No. (MEC) Description ERD-2FCJ ××× $NF05 \times \times \times 140$ (±5% 1/4W) $RF05 \times \times \times 140$ NF02 $\times \times \times$ 140 ERD-2FCG ××× (±2% 1/4W) $RF02 \times \times \times 140$ - * Resistance value

Examples;

Resistance value

$0.1\Omega001$	10Ω 100	1kΩ 102	100kΩ 104
0.5Ω 005	$18\Omega \dots 180$	$2.7k\Omega 272$	680kΩ 684
1Ω 010	100Ω 101	10kΩ 103	1MΩ 105
$6.8\Omega068$	$390\Omega 391$	$22k\Omega 223$	4.7MΩ 475

Resistance value

ABBREVIATION AND MARKS ANT. : ANTENNA BATT. : BATTERY CAP. : CAPACITOR CER. : CERAMIC CONN. : CONNECTING DIG. : DIGITAL HP : HEADPHONE MIC. : MICROPHONE μ-PRO : MICROPROCESSOR RFC. : RECORDING **RFS** : RESISTOR : SPFAKER TRANSF.: TRANSFORMER SW : SWITCH TRS. TRIM : TRIMMING : TRAMSISTOR VAR. : VARIABLE X'TAL : CRYSTAL

NOTE ON SAFETY:

Symbol A Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol 🛕 . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

🛕 がついている部品は、安全上重要な部品です。必ず 指定されている部品番号の部品を使用して下さい。

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P101-MAIN CIRCUIT BOARD		C814 C815		482212441543 482212490355	ELECT. 1μF M 50V ELECT. 100μF M 50V RA-2	OA10505020 OA10705020
C301		482212614166	P101-CAPACITORS FILM 330pF J 100V	OF15331540	C901		996500001344	FILM 100pF J 100V APSV	OF15101540
C302		482212614166	FILM 330pF J 100V	OF15331540	C902		996500001344	FILM 100pF J 100V APSV	OF15101540
C303		996500001581	ELECT. 22µF M 25V RA-2	OA22602520	C911		482212412276	FILM 0.01µF J 100V	OF15103540
C304		996500001581	ELECT. 22µF M 25V RA-2	OA22602520	C912		482212422698	ELECT. 47µF M 25V RA-2	OA47602520
C305		482212441535	ELECT. 100µF M 25V RA-2	OA10702520	C913		482212422698	ELECT. 47µF M 25V RA-2	OA47602520
C306		482212441535	ELECT. 100µF M 25V RA-2	OA10702520	C915 C916		482212240617 482212422273	CER. 0.1µF +80-20% 50V ELECT. 0.47µF M 50V RA-2	DD38104010 OA47405020
C307 C308		482212441534 482212441534	ELECT. 10µF M 25V RA-2 ELECT. 10µF M 25V RA-2	OA10602520 OA10602520	C917		482212230043	CER. 0.01µF Z 50V	DK18103310
C300		1402212441334	LLLC1. TOPI WIZSV KA-Z	OA10002320					
3		482212230043	CER. 0.01µF Z 50V	DK18103310				P101-CAPACITORS (COMMON)	
C323			·		C***			PLASTIC FILM CAPACITOR	
C325	". 0							±5% 50V : C309-C312	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/K, S	996500001344	FILM 100pF J 100V	OF15101540				C407-C410 C415 C416 C719-C722 C725 C726	
C338								0/17-0/22 0/23 0/20	
C401		482212110792	FILM 220pF J 100V	OF15221540				P101-RESISTORS	
C402		482212110792	FILM 220pF J 100V	OF15221540	▲ R328		482205210229	22Ω ±5% 1/6W	GG05220160
C403		482212441534	ELECT. 10µF M 25V RA-2	OA10602520	▲ R329		482205210229	22Ω ±5% 1/6W	GG05220160
C404		482212441534	ELECT. 10µF M 25V RA-2	OA10602520	▲ R330 R331		482205210229 482211131001	22Ω ±5% 1/6W 330Ω ±5% 1/6W	GG05220160 GG05331160
C405 C406		482212490371 482212490371	ELECT. 470µF M 10V RA-2 ELECT. 470µF M 10V RA-2	OA47701020 OA47701020	R332		482211131001	$330\Omega \pm 5\% \ 1/6W$	GG05331160 GG05331160
C400		482212170437	FILM 1000pF J 100V APSV	OF15102540	▲ R333		482205210229	22Ω ±5% 1/6W	GG05220160
C412		482212170437	FILM 1000pF J 100V APSV	OF15102540	R419		482211131001	330Ω ±5% 1/6W	GG05331160
C413		996500001581	ELECT. 22µF M 25V RA-2	OA22602520	R420		482211131001	330Ω ±5% 1/6W	GG05331160
C414		996500001581	ELECT. 22µF M 25V RA-2	OA22602520	D707		400041100407	1000 10/ 1/4/4	ND01101140
C417		482212490365	ELECT. 220µF M 25V RA-2	OA22702520	R707 R708		482211120407 482211120407	100Ω ±1% 1/4W 100Ω ±1% 1/4W	NR01101140 NR01101140
C418 C419	IV IS	482212490365 996500001344	ELECT. 220µF M 25V RA-2 FILM 100pF J 100V	OA22702520 OF15101540	R723		402211120407	10052 ±170 174W	101101140
	/K, /S	996500001344	FILM 100pF J 100V	OF15101540	5		482205310152	1.5kΩ ±5% 1W	GA05152010
C421	,	482212230043	CER. 0.01µF Z 50V	DK18103310	R726				
			·		R731				
C701		482212441534	ELECT. 10μF M 25V RA-2	OA10602520	R734		482205210471	470Ω ±5% 1/6W	GG05471160
C702		482212441534	ELECT. 10µF M 25V RA-2	OA10602520	R734				
C703 C704		482212614166 482212614166	FILM 330pF J 100V FILM 330pF J 100V	OF15331540 OF15331540	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		482205210151	150Ω ±5% 1/6W	GG05151160
C705		482212441535	ELECT. 100µF M 25V RA-2	OA10702520	R742				
C706		482212441535	ELECT. 100µF M 25V RA-2	OA10702520	R751		482210020681	TRIMM. 2.2kΩ RH0638CJ3R	RA02220780
C707				1	R752		482210020681	TRIMM. 2.2kΩ RH0638CJ3R	RA02220780
C710		482212490365	ELECT. 220µF M 25V RA-2	OA22702520	R755		482205210101	100Ω ±5% 1/6W	GG05101160
C710		996500001564	 FILM 680pF ±5% 100V OFC	OF55681540	R756		102200210101	10022 2070 17011	0000101100
C712		996500001564	FILM 680pF ±5% 100V OFC	OF55681540	R757		482205210102	1kΩ ±5% 1/6W	GG05102160
C713		482212441534	ELECT. 10µF M 25V RA-2	OA10602520	R758		482205210102	1kΩ ±5% 1/6W	GG05102160
C714		482212441534	ELECT. 10µF M 25V RA-2	OA10602520	R759		400005040470	470 50/ 1////	00054701/0
C715		402212400277	ELECT 2200 EM EQUEDA 2	0422705020	R762		482205210479	47Ω ±5% 1/6W	GG05470160
C718		482212490366	ELECT. 220µF M 50V RA-2	OA22705020	R763				
C713		482212412276	FILM 0.01µF J 100V	OF15103540	S		482205210109	10Ω ±5% 1/6W	GG05100160
C724		482212412276	FILM 0.01µF J 100V	OF15103540	R766		40000554555	0000 50/1/00	
C727		482212422273	ELECT. 0.47µF M 50V RA-2	OA47405020	R767		482205210221	220Ω ±5% 1/6W	GG05221160
C728		482212422273	ELECT. 0.47µF M 50V RA-2	OA47405020	R768 ▲ R769		482205210221 482211191402	220Ω ±5% 1/6W FIXED 0.1Ω X2 3W	GG05221160 BZ10102010
C729 C730		996500001561 996500001561	MICA 10pF D 250WV AUDIO MICA 10pF D 250WV AUDIO	DF31100520 DF31100520	▲ R770		482211191402	FIXED 0.1Ω X2 3W	BZ10102010 BZ10102010
0/30		77030000 1301	IMION TOPI D ZJUNIN MUDIU	31 וט320 ופ	R771		482205210102	1kΩ ±5% 1/6W	GG05102160
▲ C801			ELECT. 10000µF 50V AUDIO	OB10905030	R772		482205210102	1kΩ ±5% 1/6W	GG05102160
▲ C802			ELECT. 10000µF 50V AUDIO	OB10905030	R773			4.7kΩ ±5% 1/6W	GG05472160
C803		482212423918	ELECT. ELNA RA2 16X25	OA10805020	R774		402205210100	4.7kΩ ±5% 1/6W	GG05472160
C804		482212423918	ELECT. ELNA RA2 16X25	OA10805020	R777 R778		482205310109 482205310109	10Ω ±5% 1W 10Ω ±5% 1W	GA05100010 GA05100010
C805 C806		482212441535 482212441535	ELECT. 100µF M 25V RA-2 ELECT. 100µF M 25V RA-2	OA10702520 OA10702520	R778		102203310107	I CAE TO /O I W	37.03 1000 10
C807		482212441333	ELECT. 100µF M 25V RA-2	OA10702520 OA22702520	\ \(\)		482205210109	10Ω ±5% 1/4W	GG05100140
C808		482212490365	ELECT. 220µF M 25V RA-2	OA22702520	R788				
C809		482212490366	ELECT. 220µF M 50V RA-2	OA22705020	R789		482211660494	330Ω ±5% 2W METAL	NK05331020
C810		482212422698	ELECT. 47µF M 50V RA-2	OA47602520	R790 R791		482211660494 482205021022	330Ω ±5% 2W METAL 1kΩ ±5% 1/2W	NK05331020 GG05102120
C811 C812		482212441535 482212441534	ELECT. 100µF M 50V RA-2	OA10702520 OA10602520	R791		482205021022	$1822 \pm 5\% 1/2W$ 2.2k\O \pm 5\% 1/4W	GG05102120 GG05222140
C812		482212441534	ELECT. 10µF M 50V RA-2 ELECT. 1µF M 50V	OA10602520 OA10505020	""/				
	ı	1		3000020		L	<u> </u>	l .	

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POS.	VERS.	PART NO.	DESCRIPTION	PART NO.	POS.	VERS.	PART NO.	DESCRIPTION	PART NO.
NO	COLOR	(FOR PCS)	DEGOINI HON	(ILM)	NO	COLOR	(FOR PCS)	DECORAL FIGH	(MJI)
R801		482205021108	1Ω ±5% 1/2W	GG05010120	Q702		482220973064	IC NJM-2068-DD	HC10053090
R802		482205021108	1Ω ±5% 1/2W	GG05010120	Q703		482213060107	TRS. 2SA1048 Y OR GR	HT110482B0
R809		482205210478	4.7Ω ±5% 1/6W	GG05047160	Q704		482213060107	TRS. 2SA1048 Y OR GR	HT110482B0
R810		482205210478	4.7Ω ±5% 1/6W	GG05047160	Q705		482213060839	TRS. 2SC2458 Y OR GR	HT324582B0
R812		482205210229	22Ω ±5% 1/6W	GG05220160	Q706		482213060839	TRS. 2SC2458 Y OR GR	HT324582B0
▲ R815		482205210228	2.2Ω ±5% 1/6W	GG05022160	Q707		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
R908		482205022262	2.2kΩ ±5% 1/4W	GG05222140	Q708		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
					Q709				
			P101-RESISTORS (COMMON)		S		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
<u>R***</u>			CARBON FILM FIXED RES.		Q712				
			±5% 1/6W : R301-R327		Q713		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
			R401-R418 R701-R730		Q714		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
			R735-R738 R743-R750 R775		Q715		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
			R776 R779-R784 R803-R808		Q716		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
			R813 R814 R901-R907		Q717		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
			R910-R921		Q718		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
					Q719		482213060526	TRS. 2SD1508 DARLINGTON	HT415080A0
			P101-SEMICONDUCTORS					HFE>4000	
D301		482213032362	DIODE 1SS176 MA165 1SS254	HD20002000	Q720		482213060526	TRS. 2SD1508 DARLINGTON	HT415080A0
			30V 0.1A					HFE>4000	
D302		482213032362	DIODE 1SS176 MA165 1SS254	HD20002000	Q721		482213043283	TRS. 2SC2705 O OR Y	HT327052A0
			30V 0.1A		Q722		482213043283	TRS. 2SC2705 O OR Y	HT327052A0
D701					Q723		482213042999	TRS. 2SA1145 O OR Y	HT111452A0
5		482213080322	ZENER DIODE 15V	HD31501000	Q724		482213042999	TRS. 2SA1145 O OR Y	HT111452A0
D704					Q725		532213061737	TRS. 2SC3423 O OR Y	HT334232A0
D705					Q726		532213061737	TRS. 2SC3423 O OR Y	HT334232A0
}		482213032362	DIODE 1SS176 MA165 1SS254	HD20002000	Q727		532213061728	TRS. 2SA1360 O OR Y	HT113602A0
D712			30V 0.1A		Q728		532213061728	TRS. 2SA1360 O OR Y	HT113602A0
D713		482213010667	ZENER DIODE 4.7 V	HD30471000	Q729		482213043296	TRS. 2SC2837 R OR O	HT328372A0
D714		482213010667	ZENER DIODE 4.7 V	HD30471000	Q730		482213043296	TRS. 2SC2837 R OR O	HT328372A0
D715		482213033948	ZENER DIODE 5.6V	HD30561000	Q731		482213043008	TRS. 2SA1186 R OR O	HT111862A0
D716		482213033948	ZENER DIODE 5.6V	HD30561000	Q732		482213043008	TRS. 2SA1186 R OR O	HT111862A0
D717					Q733		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
5		482213080837	DIODE HSS81TD 150V 150MA	HD20027010	Q734		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
D722					Q735		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
D723		482213031554	ZENER DIODE 4.3V	HD30431000	Q736		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
D724		482213031554	ZENER DIODE 4.3V	HD30431000					
D725		482213032362	DIODE 1SS176 MA165 1SS254	HD20002000	Q801			TRS. 2SD1415	HT41415100
			30V 0.1A		Q802			TRS. 2SB1020	HT21020100
D726		482213032362	DIODE 1SS176 MA165 1SS254	HD20002000	Q803		482213060107	TRS. 2SA1048 Y OR GR	HT110482B0
			30V 0.1A		Q804		482213060839	TRS. 2SC2458 Y OR GR	HT324582B0
D727		482213080837	DIODE HSS81TD 150V 150MA	HD20027010	▲ Q805			TRS. 2SD1415	HT41415100
D728		482213080837	DIODE HSS81TD 150V 150MA	HD20027010	▲ Q806		482220962423	IC NJM78M06FA	HC38506090
					Q901		482213060107	TRS. 2SA1048 Y OR GR	HT110482B0
▲ D801			DIODE FRH10A15	HE10004100	Q902		482220983312	IC TA7317P	HC10042050
▲ D802			DIODE FCH10A15	HE10003100					
▲ D803		400040000404	DIODE 4D0 44 050V	11000000740	1004		4000000/4040	P101-MISCELLANEOUS	VT00004040
A D010		482213082421	DIODE 1D3 1A 250V	HD20002710	J301		482229061242	TERMINAL 14X14 RA 2L2P	YT02021360
▲ D810		402212022242	DIODE 10017/ MAAY 5 100054	HD30003000	1200			BLK AU FLM-GND	VT00044440
D811		482213032362	DIODE 1SS176 MA165 1SS254	HD20002000	J302			TERMINAL YKC21-3077	YT02041110
D012		402212022242	30V 0.1A DIODE 1SS176 MA165 1SS254	Прэгогого	J303 J304			TERMINAL YKC21-3077	YT02041110 YT02041110
D812		482213032362		11020002000				TERMINAL YKC21-3077	
D012		402212002474	30V 0.1A	UD22001000	J401			TERMINAL 14X14 RA 2L2P	YT02021230
D813 D814		482213082474	ZENER DIODE 20V AENER	HD32001000	1001			BLK NI FLM-GND	VT02021220
D814 ▲ D815		482213082474	ZENER DIODE 20V AENER	HD32001000	J901			TERMINAL 14X14 RA 2L2P BLK NI FLM-GND	YT02021230
4 D815 {		482213082421	DIODE 1D3 1A 250V	HD20002710	J902		482226741009	TERMINAL 2P RCA PIN JACK	YT02020890
▲ D822		702213002421	PIODE IDS IN 200V	11020002/10	J702		702220141007	I LINININAL ZE NOA PIN JACK	1102020090
D823		482213034488	ZENER DIODE 11V	HD31101000	L701			RELAY G5PA-28 5A 250VAC	LY20240490
D623		482213034466	DIODE 1SS176 MA165 1SS254		L701		996500001576	RELAY MR82-24USR	LY20240490 LY20240480
D 70 I		702213032302	30V 0.1A	11020002000	L702 L901		996500001576	RELAY MR82-24USR	LY20240480
D902		482213032362	DIODE 1SS176 MA165 1SS254	HD20002000	L701		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NELNI WINUZ-ZTUSIN	L120270400
D 702		102213032302	30V 0.1A	11020002000	S701		482227620519	PUSH SWITCH SPUN	SP02011950
1			30 V U. IA		S901		702221020317	PUSH SWITCH SPUN19	SP02011930 SP04010670
Q301		482220973064	IC NJM-2068-DD	HC10053090	3701			JOSE SWITCH SECURITY	J1 07010070
Q302		482220973004	IC LC78212	HC10033090				P201-LED &TONE	
Q302		482220932553	IC LC78212	HC10309030				CIRCUIT BOARD	
Q303 Q401		48222093233	IC NJM-2068-DD	HC10309030 HC10053090				P201-CAPACITORS	
Q401		702220713004	10 1421A1-5000-DD	11010033070	C201		482212240617	CER. 0.1µF +80-20% 50V	DD38104010
Q701		482220973064	IC NJM-2068-DD	HC10053090	C201		996500001569	CER. 0.01µF DC50V +80%-20%	
2/01		702220713004	IO INDIVI-2000-DD	11010003070	0202		770300001307	OER. 0.01μι DC30V +00/0-20/0	טו מנמו מנקק

POS.	VERS.	PART NO.		PART NO.	POS.	VERS.	PART NO.		PART NO.
NO	COLOR	(FOR PCS)	DESCRIPTION	(MJI)	NO.	COLOR	(FOR PCS)	DESCRIPTION	(MJI)
C203		482212490352 482212490352	ELECT. 10µF M 16V RA-2	OA10601620					
C204 C205		482212490352 482212240617	ELECT. 10µF M 16V RA-2 CER. 0.1µF +80-20% 50V	OA10601620 DD38104010				P251-CAPACITORS (COMMON) PLASTIC FILM CAPACITOR	
C205		482212490406	BIG ELECT FMOH223ZTP16	EX22300530	0444			±5% 50V : C605-C610	
C200		402212490400	SUPER CAP.	EX22300030				±3% 30V . C003-C010	
C207		482212490352	ELECT. 10µF M 16V RA-2	OA10601620				P251-RESISTORS	
C208		996500001569	CER. 0.01µF DC50V +80%-20%	DD38103010	R263		482205210101	100Ω ±5% 1/6W	GG05101160
C209		482212412276	FILM 0.01µF J 100V	OF15103540	R265		482205210101	100Ω ±5% 1/6W	GG05101160
C210		482212412276	FILM 0.01 µF J 100V	OF15103540	▲ R623		482211131001	330Ω ±5% 1/6W	GG05331160
			·		▲ R624		482211131001	330Ω ±5% 1/6W	GG05331160
			P201-RESISTOR		R625			VARIABLE 10k(B)X2 RK14K124	RM01030990
R230		482205210228	2.2Ω ±5% 1/6W	GG05022160	R626			VARIABLE 10k(B)X2 RK14K124	RM01030990
			D004 DE010T0D0 (0014101)		R627			VARIABLE 20k(MN)X2	RM02030570
R***			P201-RESISTORS (COMMON) CARBON FILM FIXED RES.					D2E1 DECICEODO (COMMON)	
			±5% 1/6W : R201-R210 R212		R ***			P251-RESISTORS (COMMON) CARBON FILM FIXED RES.	
			R214-R229		<u> </u>			±5% 1/6W : R251-R262 R264	
			K214-K227					R266-R271 R601-R622	
			P201-SEMICONDUCTORS		1				
D201		482213032362		HD20002000	1			P251-SEMICONDUCTORS	
			30V 0.1A		D251				
▲ D202		482213082421	DIODE 1D3 1A 250V	HD20002710	S			L.E.D. HLMF-K200 RED	HI10005340
▲ D203		482213082421	DIODE 1D3 1A 250V	HD20002710	D257				
D204		482213032362	1	HD20002000	D258			L.E.D. SELU1E50CM-S BLUE	HI10039080
D00/			30V 0.1A		D259		482213032362	DIODE 1SS176 MA165 1SS254	HD20002000
D206		40001000007	DIODE 10017/ MA1/F 1003FA	11020002000				30V 0.1A	
D209		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000	Q251		482220916735	PHOTO UNIT PNA4655M00HB	HW10006020
D209			30V 0.1A		Q231		402220910733	IR SENSOR	11001000020
Q201			MICROPROCESSOR	HU319JT000	Q252		482213060107	TRS. 2SA1048 Y OR GR	HT110482B0
			TMP87CH46N-B0024 8BIT		Q253		482213060839	TRS. 2SC2458 Y OR GR	HT324582B0
Q202		482220973287	IC LB1630	HC10235030	Q601		482220973064	IC NJM-2068-DD	HC10053090
Q203		482213060839	TRS. 2SC2458 Y OR GR	HT324582B0	Q602		482220973064	IC NJM-2068-DD	HC10053090
Q204		482213060839	TRS. 2SC2458 Y OR GR	HT324582B0					
Q205		482213060839	TRS. 2SC2458 Y OR GR	HT324582B0				P251-MISCELLANEOUS	
Q206		482213060588	DIG.TRS. DTC114ES UN4211	BA20001000	S251			ROTARY SWITCH	SR01070050
		400040040407	10K 10K	LIT440400D0				SRBV17-F0020-11	
Q207		482213060107	TRS. 2SA1048 Y OR GR	HT110482B0				DOM INDUT OF FOTOD	
Q208		482213061227	DIG.TRS. DTA114E AN4111 10K 10K	BA10001000				P291-INPUT SELECTOR CIRCUIT BOARD	
Q209		482213061227	DIG.TRS. DTA114ES UN4111	BA10001000	C291		996500001569	CER. 0.01µF DC50V +80%-20%	DD38103010
Q207		102213001227	10K 10K	B/(10001000	C292		996500001569	CER. 0.01µF DC50V +80%-20%	DD38103010
Q210		482213060588	DIG.TRS. DTC114ES UN4211	BA20001000	S291		482227320368	ROTARY SWITCH SRRSIC	SR01120070
			10K 10K						
								P501-VOLUME AMP	
			P201-MISCELLANEOUS	 	1			CIRCUIT BOARD	
L201		482215860605	FERRITE CORE	FC90050060			400045475	P501-CAPACITORS	0545464
V201		4022242720//	FERRIT BEADS (B-01-RT)	E000004010	C503		482212170437	FILM 1000pF J 100V APSV	OF15102540
X201		482224272066	SERAMIC VIB.	FQ08004010	C504 C505		482212170437	FILM 1000pF J 100V APSV	OF15102540 OA10602520
			CST8.0MHZ (MT)		C505		482212441534	ELECT. 10µF M 25V RA-2 ELECT. 10µF M 25V RA-2	OA10602520 OA10602520
			P251-µ CON CIRCUIT BOARD		C506		482212441534 482212110792	FILM 220pF J 100V	OF15221540
			P251-CAPACITORS		C508		482212110792	FILM 220pF J 100V	OF 1522 1540
C251		996500001318	ELECT. 220µF M 10V RA-2	OA22701020	C509		996500001344	FILM 100pF J 100V APSV	OF 1522 1540 OF 15101540
C252		996500001569	CER. 0.01µF DC50V +80%-20%	DD38103010	C510		996500001344	FILM 100pF J 100V APSV	OF15101540
C253		996500001318	ELECT. 220µF M 10V RA-2	OA22701020	C511		996500001581	ELECT. 22µF M 25V RA-2	OA22602520
C254		482212490352	ELECT. 10μF M 16V RA-2	OA10601620	C512		996500001581	ELECT. 22µF M 25V RA-2	OA22602520
				 	C513				
C601		482212441534	ELECT. 10µF M 25V RA-2	OA10602520	}		482212490365	ELECT. 220µF M 25V RA-2	OA22702520
C602		482212441534	ELECT. 10µF M 25V RA-2	OA10602520	C516		400045=-	 	0.146/25===
C603		996500001581	ELECT. 22µF M 25V RA-2	OA22602520	C517		482212441534	ELECT. 10µF M 25V RA-2	OA10602520
C604 C611		996500001581	ELECT. 22µF M 25V RA-2	OA22602520	C518 C519		482212441534 996500001561	ELECT. 10µF M 25V RA-2	OA10602520 DF31100520
C611		482212441534 482212441534	ELECT. 10µF M 25V RA-2 ELECT. 10µF M 25V RA-2	OA10602520 OA10602520	C519		996500001561	MICA 10pF D 250WV AUDIO MICA 10pF D 250WV AUDIO	DF31100520 DF31100520
C612		996500001581	ELECT. 10µF M 25V RA-2 ELECT. 22µF M 25V RA-2	OA10602520 OA22602520	L C320		770300001301	טוטטא איייסע די דייטוער אוייסע איייסע איייסע איייסע איייסע א	ש אווע וע וע
C614		996500001581	ELECT. 22µF M 25V RA-2	OA22602520				P501-CAPACITORS (COMMON)	
C615		482212490365	ELECT. 220µF M 25V RA-2	OA22702520	C***			PLASTIC FILM CAPACITOR	
C616		482212490365	ELECT. 220µF M 25V RA-2	OA22702520				±5% 50V : C501 C502	
C617		482212231205	CER. 47pF J CH 50V	DD15470300	1				
C618		482212231205	CER. 47pF J CH 50V	DD15470300	1				
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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PB04-RESISTORS	
▲ R549		482211131001	330Ω ±5% 1/6W	GG05331160
R552 R553 R554		482205210122	1.2kΩ ±5% 1/6W VARIABLE RESIST 30K(B)X2 RK16312MC	GG05122160 RM03030570
<u>R***</u>			P501-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W: R501-R510 R513-R548 R555-R557	
5-04			PB04-SEMICONDUCTORS	
D501		482213032362	DIODE 1SS176 MA165 1SS254	HD20002000
D506 D507 D508		482212441543 482213032362	30V 0.1A ELECT. 1μF M 50V RA-2 DIODE 1SS176 MA165 1SS254 30V 0.1A	OA10505020 HD20002000
Q501 Q502 Q503 Q504		482220973064 482220973064 482213060107 482213060107	IC NJM-2068-DD IC NJM-2068-DD TRS. 2SA1048 Y OR GR TRS. 2SA1048 Y OR GR	HC10053090 HC10053090 HT110482B0 HT110482B0
Q505 \$ Q508		482213060839	TRS. 2SC2458 Y OR GR	HT324582B0
Q509 \$ O512		482213060107	TRS. 2SA1048 Y OR GR	HT110482B0
Q512 Q513 Q514 Q515 Q516 Q517 Q518 Q519		482213060839 482213060839 482213043233 482213043233 482213042949 482213042949 482213060107	TRS. 2SC2458 Y OR GR TRS. 2SC2458 Y OR GR TRS. 2SC2240 GR OR BL TRS. 2SC2240 GR OR BL TRS. 2SA970 GR OR BL TRS. 2SA970 GR OR BL TRS. 2SA970 GR OR BL TRS. 2SA1048 Y OR GR	HT324582B0 HT324582B0 HT322402A0 HT322402A0 HT109702A0 HT109702A0 HT110482B0
L501 S501		996500001576 482227613449	PB04-MISCELLANEOUS RELAY MR82-24USR PUSH SWITCH SPUN12	LY20240480 SP02012090
	/F		P851-AC OUTLET VOL.SEL. CIRCUIT BOARD FUSE 6.3A 125V UL CSA MITI TYPE FBT	FS10630350
F851 F852 A J851 S851	/K, /S /K /F /K	482207033152 482207033152 482226531113 482227721825	FUSE 3.15 A 250V BS LISTED FUSE 3.15 A 250V BS LISTED JACK 3P ACOUTLET SLIDE SWITCH SDKGA4	FS10315850 FS10315850 YJ04001950 SS02021510
▲ C891 ▲ S891		482212143732 482227612647	P891-POWER SW. CIRCUIT BOARD FILM 0.01µF 250V AC PUSH SW. ESB-99753V-4 TV-8	DF77103500 SP01011470
	IK IS IK IS	482212412276 482212412276 482212412276 482212412276 482212412276 482205210109 482205210109 996500001662	P951-HEAD PHONE CIRCUIT BOARD FILM $0.01\mu\text{F}\ J\ 100V$ RESISTOR $10\Omega\ \pm5\%\ 1/6W$ RESISTOR $10\Omega\ \pm5\%\ 1/6W$ JACK HEADPHONE HLJ0540-01-410 BLK	OF15103540 OF15103540 OF15103540 OF15103540 GG05100160 GG05100160 YJ01003870